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(54) Title: NEOPLASM SPECIFIC ANTIBODIES AND USES THEREOF

(57) Abstract: The present invention features polypeptides, such as antibodies, and their use in the treatment and diagnosis of neoplasms.

# INTERNATIONAL SEARCH REPORT

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PCT/IB 03/01335

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7    C07K16/30    C12N5/28    C12N15/08    G01N33/574    G01N33/577  
A61K51/10    A61K39/395    A61K47/48    A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7    C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, SEQUENCE SEARCH, WPI Data, PAJ, MEDLINE, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 01 83560 A (ICHIKAWA KIMIHISA ;KIMBERLY ROBERT P (US); KOOPMAN WILLIAM J (US);) 8 November 2001 (2001-11-08)</p> <p>abstract page 1, line 25 - line 31 page 3, line 7 - line 9 page 4, line 25 - line 28 page 5, line 20 - line 30 page 5, line 22 - line 25 page 6, line 3 - line 5 page 6, line 25 - line 27 page 12, line 18 - line 31 page 20, line 1 - line 8 page 29, line 27 - line 28 page 30, line 17 - line 29 page 35, line 6 - line 11 page 36, line 15 - line 17 page 58, line 1 - line 2</p> <p style="text-align: center;">-/--</p>	<p>1-6,13, 14, 17-20, 26-53</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

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PCT/IB 03/01335

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>---  WO 97 13844 A (CAMBRIDGE ANTIBODY TECH  ;TEMPEST PHILIP RONALD (GB); THOMSON  JULIA) 17 April 1997 (1997-04-17)  figures 1,2,19  page 17, line 25 -page 18, line 21  page 1, line 8 - line 11  page 38, line 6 - line 9  page 38, line 16 - line 20  claims 1-34  ---</p>	9,12-16, 21,22, 26,52,53
X	<p>---  WO 01 62932 A (AMGEN INC)  30 August 2001 (2001-08-30)  claim 9  ---</p>	23,26
X	<p>---  EP 1 106 183 A (GENENTECH INC ;REGENTS  BOARD OF (US)) 13 June 2001 (2001-06-13)    page 9, line 23 - line 30  page 17, line 15 - line 24  page 24, line 46 - line 55  page 5, line 5 - line 7  page 10, line 38 - line 44  page 14, line 26 - line 34  ---</p>	3,6, 12-14, 16, 29-33, 36-41, 44-49, 52,53
X	<p>---  BRAENDLEIN STEPHANIE ET AL:  "Characterization of five new fully human  monoclonal IgM antibodies isolated from  carcinoma patients"  PROCEEDINGS OF THE AMERICAN ASSOCIATION  FOR CANCER RESEARCH ANNUAL,  vol. 43, March 2002 (2002-03), page 970  XP001155782  93rd Annual Meeting of the American  Association for Cancer Research;San  Francisco, California, USA; April 06-10,  2002, March, 2002  ISSN: 0197-016X  the whole document  ---</p>	1-53
X	<p>---  BRAENDLEIN STEPHANIE ET AL: "Human  monoclonal IgM antibodies with apoptotic  activity isolated from cancer patients."  HUMAN ANTIBODIES,  vol. 11, no. 4, 2002, pages 107-119,  XP009020163  ISSN: 1093-2607  the whole document  ---  -/--</p>	1-53

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MENG RAYMOND D ET AL: "p53-independent upregulation of KILLER/DR5 TRAIL receptor expression by glucocorticoids and interferon-gamma" EXPERIMENTAL CELL RESEARCH, vol. 262, no. 2, 15 January 2001 (2001-01-15), pages 154-169, XP002260126 ISSN: 0014-4827 the whole document ----	1-53
A	HUANG YING ET AL: "Sulindac sulfide-induced apoptosis involves death receptor 5 and the caspase 8-dependent pathway in human colon and prostate cancer cells" CANCER RESEARCH, vol. 61, no. 18, 15 September 2001 (2001-09-15), pages 6918-6924, XP002260127 ISSN: 0008-5472 the whole document -----	1-53

# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 36-51 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/IB 03/01335

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